

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P291670

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-FGW080-UNV-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1235.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

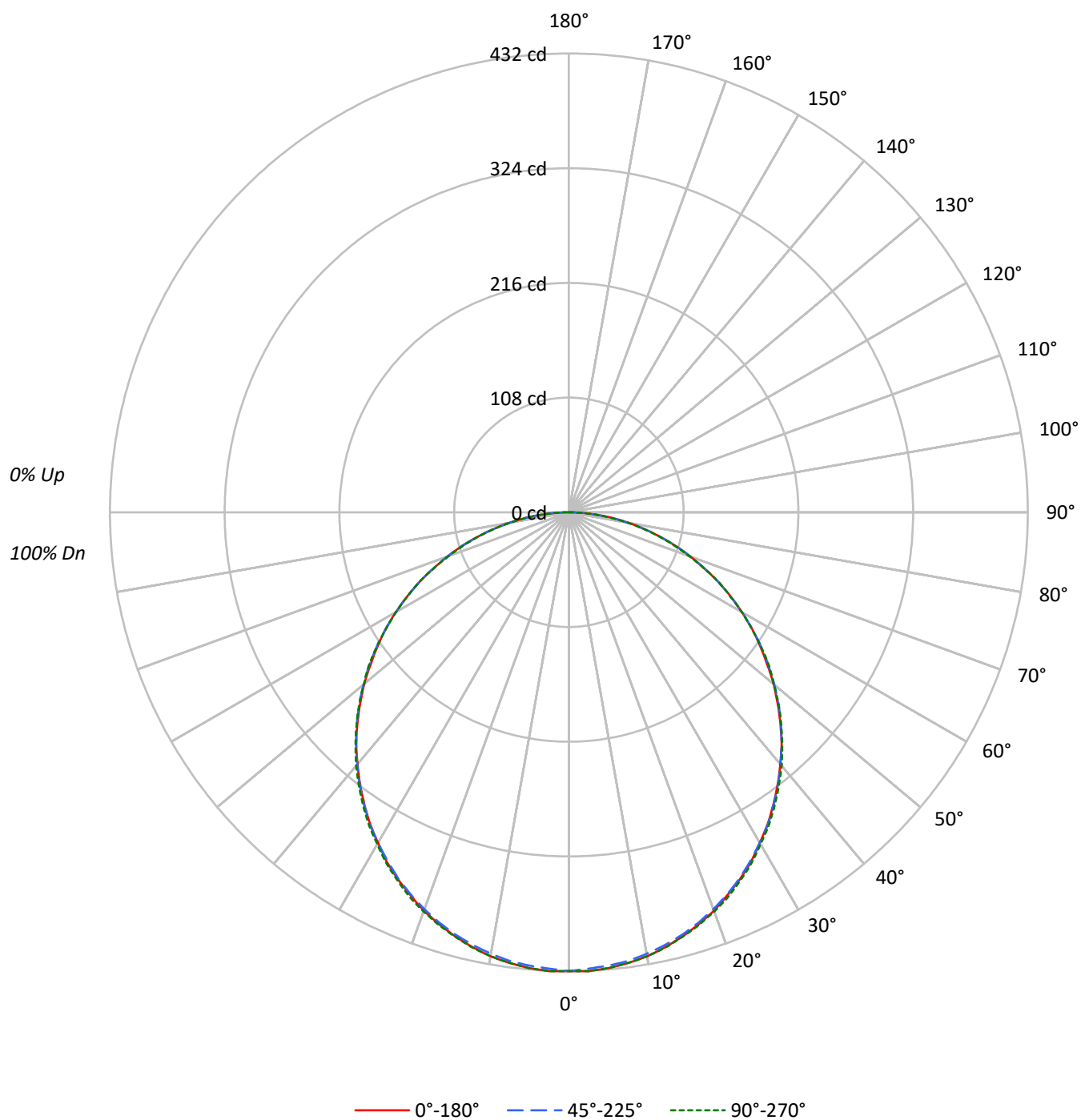
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1162	1162	1162
5°	1163	1157	1163
10°	1160	1153	1160
15°	1151	1147	1153
20°	1143	1139	1145
25°	1131	1129	1135
30°	1116	1116	1121
35°	1102	1104	1109
40°	1087	1089	1094
45°	1071	1074	1076
50°	1053	1056	1055
55°	1032	1037	1035
60°	1011	1011	1011
65°	988	988	993
70°	957	957	947
75°	923	919	915
80°	882	876	869
85°	827	818	794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	3.3
10°-20°	116.6	9.4
20°-30°	175.7	14.2
30°-40°	210.5	17.0
40°-50°	217.7	17.6
50°-60°	197.4	16.0
60°-70°	153.4	12.4
70°-80°	93.7	7.6
80°-90°	29.3	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	333.1	27.0
0°-40°	543.6	44.0
0°-60°	958.6	77.6
0°-90°	1235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	432	432	432	432	432	
5°	431	430	428	430	431	41
15°	413	413	412	414	414	117
25°	381	381	380	383	382	176
35°	336	336	336	338	338	210
45°	282	282	282	283	283	217
55°	220	221	221	221	221	197
65°	155	155	155	154	156	153
75°	89	89	88	88	88	94
85°	27	26	26	26	26	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	431.9	431.9	431.9	431.9	431.9
2.5°	432.3	431.9	429.9	431.9	432.3
5°	430.7	430.3	428.4	430.3	430.7
7.5°	428.0	428.0	426.0	428.0	428.0
10°	424.4	424.0	422.0	424.0	424.4
12.5°	419.3	419.3	417.3	419.3	419.7
15°	413.3	413.3	411.8	413.7	413.7
17.5°	406.6	407.0	405.1	407.4	407.4
20°	399.1	398.7	397.6	399.5	399.9
22.5°	390.1	390.5	389.3	391.6	392.0
25°	381.0	381.0	380.2	382.6	382.2
27.5°	371.1	371.1	369.9	371.9	372.3
30°	359.3	359.7	359.3	361.2	360.8
32.5°	348.2	348.6	348.6	349.4	349.8
35°	335.6	336.0	336.0	337.5	337.5
37.5°	322.9	322.9	323.3	324.5	324.5
40°	309.5	309.9	309.9	311.1	311.5
42.5°	296.5	295.7	296.1	297.3	297.3
45°	281.5	281.9	282.3	282.7	282.7
47.5°	266.5	267.3	267.7	268.1	267.7
50°	251.5	252.3	252.3	251.9	251.9
52.5°	235.3	237.3	236.9	236.9	237.7
55°	219.9	220.7	221.1	221.1	220.7
57.5°	204.5	205.3	204.5	204.9	204.1
60°	187.9	188.3	187.9	187.9	187.9
62.5°	171.7	172.1	171.3	171.3	171.3
65°	155.2	155.2	155.2	154.4	155.9
67.5°	137.8	138.6	138.6	139.0	137.4
70°	121.6	122.0	121.6	121.2	120.4
72.5°	105.4	105.8	106.2	104.6	104.2
75°	88.8	88.8	88.4	88.0	88.0
77.5°	72.6	72.6	72.6	71.9	71.9
80°	56.9	57.2	56.5	56.5	56.1
82.5°	41.5	41.5	41.5	41.1	40.3
85°	26.8	26.1	26.5	25.7	25.7
87.5°	12.2	12.2	12.2	11.4	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)